

SCOPE OF WORK

Painting of Medium Wave 7 Towers antenna Coaxial Transmission line

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Introduction:

C1.1 The contractor shall provide all supervision, labor, equipment, tools, supplies, documentation, transportation, and any other miscellaneous items necessary to perform the bellow described work at the International Broadcasting Bureau's (IBB) transmitting station site located 13 Kms North of Al Mutlaa on road No. 80 going to Abdaly. The work shall be performed by the contractor as described in the following Sections.

C1.2 The following materials will be Government Furnished Material [GFM]:

- Primer Epoxy Interseal 1052.
- Paint Polyurethane Enamel [topcoat paint Interthane 990 Semi-Gloss (White Color)].
- Red paint for transmission supports.
- Black paint for making numbers on the transmission line supports.

C.2 Description of work:

C.2.1 The contractor shall apply primer coat and once cured, apply paint (top coat) on the transmission line between the transmitter building and the Medium Wave 7 Towers antenna. In addition, also paint the short support posts and protective guardrail along the transmission line. This transmission line is approximately 2,200 meters in length.

C.2.2 The transmission line is a 9-Inch diameter Aluminum tubing. Most of the line is no more than 0.80 meters above the ground, with exception of one bridge section of about 10 meters, close to the transmitter building.

C.2.3 The transmission line supports which are currently painted red shall be repainted with paint of similar color, provided as GFM. The line support posts must be numbered from the end of the transmission line bridge, with a number count every five posts painted in a contrasting color, currently black (also GFM).

C.2.4. The guardrail and guardrail supports shall be cleaned very thoroughly from corrosion, sand, dust and other substances where bare metal is exposed.

C.3 SPECIFIC WORK TASKS:

C.3.1 The transmission line must be protected from any damage. The Aluminum outer piping is not a structural surface and cannot bear much weight. It cannot support the weight of adults, nor is it designed to be stepped on. Dents in the Aluminum will affect performance of transmission line. During certain hours of day, the transmission line is energized with the output from 600 kilo Watt

transmitter; however, this does not pose any danger to anyone involved with this project, as the line will radiate, unless a breach is made to the coax line.

- C.3.2. The transmission line is retained in place with rubber rollers. The bottom roller does not need to be removed, however, in order to paint the transmission line properly; the upper roller must be removed. The roller axle must be restored to the bracket to prevent the transmission line from buckling due to thermal expansion. When the paint has properly cured, the removed rubber roller must be reinstalled with the proper axle retaining hardware supplied by US government.
- C.3.3. The transmission line must be cleaned to remove all dirt and dust prior to application of any paint and related primer. On the surface, where bare Aluminum is exposed, the Aluminum surface must be stripped of all oil and contaminant prior to application of primer. Surface areas which are chalking must be removed prior to the application of paint.
- C.3.4. The guardrail and supports are made of a ferrous metal, and due to the considerable amount of rusting, most of the guardrail and supports will have to be cleaned of rust and oxidation products, down to bare metal, a good and proper coat of primer and black enamel top coat applied over primer is required.
- C.3.5 A protective movable canopy must be provided to protect the transmission line from dust while painting it. In addition, the canopy shall provide shade for the working crew.

C.4. Safety:

Safety is our first priority; it is the responsibility of the contractor to make sure that his staff works in a safe environment using the right safety equipment such as gloves, safety glasses, and right type of masks.